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## FISCAL IMPACT REPORT

ORIGINAL DATE 1-23-2006

SPONSOR Martinez, R.C. LAST UPDATED \_\_\_\_\_ HB \_\_\_\_\_

SHORT TITLE Middle School Teacher Science & Math Training SB 25

ANALYST Dearing

### APPROPRIATION (dollars in thousands)

Appropriation		Recurring or Non-Rec	Fund Affected
FY06	FY07		
	\$250.0	Recurring	General Fund

(Parenthesis ( ) Indicate Expenditure Decreases)

Duplicates HB 126

Relates to:

- SB 233      Expand Teacher Education Field Courses
- HB 3        Education Appropriation Act
- HB 9        WNMU Web-Based Teacher Preparation Program
- HB 26      Santa Fe Teacher Science Instruction
- HC 142     Building for Teacher Education and General Education for Northern New Mexico  
State School in Espanola in Rio Arriba County
- HB 160     Expand Teacher Education Field Courses

### SOURCES OF INFORMATION

LFC Files

Responses Received From

Public Education Department (PED)

### SUMMARY

#### Synopsis of Bill

Senate Bill 25 appropriates \$250,000 from the general fund to provide a program at Northern New Mexico State School, commonly known as Northern New Mexico Community College, to train middle school teachers to improve their skills, technical knowledge and teaching techniques in science, mathematics and technology so that they are better prepared to teach students in those subjects. Any unexpended or unencumbered balance remaining at the end of the fiscal year 2007 shall revert to the general fund.

## **FISCAL IMPLICATIONS**

The appropriation of \$250,000 contained in this bill is a recurring expense to the general fund. Any unexpended or unencumbered balance remaining at the end of fiscal year 2007 shall revert to the general fund.

## **SIGNIFICANT ISSUES**

According to the Public Education Department, this program reflects findings of the first Mathematics and Science Education in New Mexico Town Hall/Summit, held in November 2005. Northern New Mexico Community College (NNMCC) has partnered with the Northern New Mexico Math and Science Academy (MSA) to conduct professional development for middle school teachers.

The Northern New Mexico Math and Science Academy (MSA) program was started in 2000 by the Northern New Mexico Council for Excellence in Education (NNMCEE) in partnership with the Los Alamos National Laboratory. In 2004-2005 the four MSA staff members worked with over 70 teachers in 14 middle and elementary schools in five districts. This bill would fund the sixth year of this professional development program. Evaluators have found that student achievement has increased steadily for the students of teachers in the program.

Among the Town Hall/Summit recommendations implemented by MSA are that:

- New Mexico's middle school teachers must have deep content knowledge and effective pedagogical skills to be competent instructors.
- MSA focuses on standards-based education using research-based concepts and instructional strategies, assessment and data analysis.
- MSA's goal is to increase student achievement by improving teacher practice.
- The middle school teachers' program consists of intensive training during a three-week summer institute; biweekly site-based meetings after school; cognitive coaching and mentoring four to five times a year; development of individual reflective portfolios; and biweekly online discussions with the whole MSA community.

Funding for the MSA teachers has been provided by the Legislature and private and corporate donations.

The sum of \$73,200 was appropriated for this program in Chapter 34, Laws of 2005 (Senate Bill 190.) The Legislative Finance Committee funding recommendation for fiscal year 2007 has included this amount as a component of a block-grant appropriation to NNMC for special projects expansion.

## **PERFORMANCE IMPLICATIONS**

This legislation addresses fiscal year 2007 performance measures centering on percentage of 8<sup>th</sup> grade students achieving proficiency in mathematics.

## **CONFLICT, DUPLICATION, COMPANIONSHIP, RELATIONSHIP**

Duplicates HB 126

Relates to:

SB 233	Expand Teacher Education Field Courses
HB 3	Education Appropriation Act
HB 9	WNMU Web-Based Teacher Preparation Program
HB 26	Santa Fe Teacher Science Instruction
HC 142	Building for Teacher Education and General Education for Northern New Mexico State School in Espanola in Rio Arriba County
HB 160	Expand Teacher Education Field Courses

## **OTHER SUBSTANTIVE ISSUES**

The promotion of Science, Technology, Engineering, and Mathematics (STEM) education programs within educational institutions within New Mexico have recently been high-lighted as issues that are at the forefront of the New Mexico Federal Congressional Delegation’s funding and legislative initiatives. While this proposed legislation deals with the development of these core competencies within the teaching community, this is directly related to the overall goal of increasing scientific, technical, engineering, and mathematical abilities of students within the state, through increasing the ability of teachers to convey this knowledge to their students.

## **WHAT WILL BE THE CONSEQUENCES OF NOT ENACTING THIS BILL**

Funding will not be provided to Northern New Mexico State School to train middle school teachers at the higher level. This could limit their skills, technical knowledge and teaching techniques in science, mathematics and technology. The result of lowered teaching capability could decrease student competency in critical mathematics, science and technical areas among students and could result in a generally negative impact on comprehensive test results.

There is a clear relationship among low standards, mediocre curriculum, undereducated teaching professionals and poor educational results. The critical element in student achievement has been shown to be teacher quality and high-quality curriculum. Recent data indicates that the percent of classes taught by highly qualified teachers at the middle school level is approximately 76%.

## **POSSIBLE QUESTIONS**

How are these funds to be administered?

Will this administration incur additional costs?

PD/nt